

Substitute Form PTO-449 (Modified)	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 37531-501C02US	Application No. 10/820,581
	Applicant Mark E. Deem et al.			
	Filing Date April 7, 2004		Group Art Unit 3734	

(37 CFR §1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4994077	2/19/91	Dobben			
	AB	5320632	6/14/94	Heidmueller			
	AC	5332402	7/26/94	Teitelbaum			
	AD	5411552	5/2/95	Andersen et al.			
	AE	5571215	11/5/96	Serman et al.			
	AF	5769812	6/23/98	Stevens et al.			
	AG	5810849	9/22/98	Kontos			
	AH	5840081	11/24/98	Andersen et al.			
	AI	7048754	05/23/06	Martin et al.			
	AJ	7226467	06/05/07	Lucatero et al.			
	AK	20030130730	07/10/03	Cohn et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL	1598111	09/16/81	UK				
	AM	2151142	07/17/85	UK				
	AN	3504292	07/24/86	DE				X*
	AO	0 179 562	07/12/89	EP			X+	
	AP	0 558 031	09/01/93	EP			X+	
	AQ	0 684 012	11/29/95	EP				X*
	AR	11089937	04/06/99	JP				X*
	AS	2768324	03/19/99	FR			X++	
	AT	81/00668	03/19/81	PCT				
	AU	91/18881	09/01/91	PCT				
	AV	92/12690	08/06/92	PCT				
	AW	94/18893	09/01/94	PCT				
	AX	97/39688	10/30/97	PCT				

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							Yes	No
	AY	98/07375	02/26/98	PCT				
	AZ	98/24372	06/11/98	PCT				
	BA	98/30153	07/16/98	PCT				
	BB	98/35638	08/20/98	PCT				
	BC	99/00059	01/07/99	PCT				
	BD	99/01377	01/16/99	PCT				
	BE	99/07354	02/18/99	PCT				
	BF	00/60995	10/19/00	PCT				
	BG	01/26557	04/19/01	PCT				
	BH	01/28432	04/26/01	PCT				
	BI	03/001893	01/09/03	PCT				
	BJ	03/03930	01/16/03	PCT				
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	BM	04/012583	02/12/04	PCT				
	BN	04/019811	03/11/04	PCT				
	BO	04/030570	04/15/04	PCT				
	BP	04/045378	06/03/04	PCT				
	BQ	04/045463	06/03/04	PCT				
	BR	04/047679	06/10/04	PCT				
	BS	04/112585	12/29/04	PCT				
	BT	04/112651	12/29/04	PCT				
	BU	05/032421	04/14/05	PCT				
	BV	05/062931	07/14/05	PCT				
	BW	06/086434	08/17/06	PCT				
	BX	06/116558	11/02/06	PCT				

X* = An English language Derwent is provided

X+ = An English language translation is provided

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X++= An English language abstract is included

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	BY	Abe et al., "As originally published in 1989: De Vega's annuloplasty for acquired tricuspid disease: early and late results in 110 patients. Updated in 1996," Ann. Thorac. Surg. 62(6): 1876-1877 (1996)
	BZ	Agricola et al., "Mitral valve reserve in double orifice technique: an exercise echocardiographic study," Journal of Heart Valve Disease 11(5): 637-643 (2002)
	CA	Alfieri et al., "An effective technique to correct anterior mitral leaflet prolapse," J. Card. Surg. 14(6): 468-470 (1999)
	CB	Alfieri et al., "Novel suture device for beating heart mitral leaflet approximation," Annals of Thoracic Surgery 74: 1488-1493 (2002)
	CC	Alfieri et al., "The double orifice technique in mitral valve repair: a simple solution for complex problems," Journal Of Thoracic Cardiovascular Surgery 122: 674-681 (2001)
	CD	Alfieri, O., "Surgical Treatment of Atrial Fibrillation: Summary of Current Experience," The edge-to-edge repair of the mitral valve," [Abstract] 6th Annual NewEra Cardiac Care: Innovation & Technology, Heart Surgery Forum, pp. 103 (2003)
	CE	Alfieri, O., "The edge-to-edge repair of the mitral valve," [Abstract] 6th Annual NewEra Cardiac Care: Innovation & Technology, Heart Surgery Forum, pp. 103 (2003)
	CF	Ali Khan et al., "Blade atrial septostomy: Experience with the first 50 procedures Cathet Cardiovasc Diagn. 23(4):257-62 (1991)
	CG	Arisi et al., "Mitral valve repair with Alfieri technique in mitral regurgitation of diverse etiology: early echocardiographic results," Circulation Supplement II, 104: 3240 (2001)
	CH	Bailey, C.P. et al., "Mitral Regurgitation," Chapter 20 in <i>Surgery of the Heart</i> , Philadelphia: Lea & Febiger, pp. 686-737 (1955)
	CI	Bhudia, S., "Edge-to-edge mitral repair: a versatile mitral repair technique," The Cleveland Clinic Foundation, Cleveland, Ohio, < http://www.ctsnet.org/doc/7007 > (accessed on December 14, 2004)
	CJ	Borghetti et al., "Preliminary observations on haemodynamics during physiological stress conditions following 'double-orifice' mitral valve repair," European Journal of Cardio-thoracic Surgery 20: 262-269 (2001)
	CK	Castedo, "Edge-to-edge tricuspid repair for redeveloped valve incompetence after DeVega's annuloplasty," Ann Thorac Surg. 75: 605-606 (2003)
	CL	Dottori et al., "Echocardiographic imaging of the Alfieri type mitral valve repair," Ital. Heart J. 2(4): 319-320 (2001)
	CM	Downing et al., "Beating heart mitral valve surgery: preliminary model and methodology," Journal of Thoracic and Cardiovascular surgery 123(6): 1141-1146 (2002)
	CN	Falk et al., "Computer-enhanced mitral valve surgery: toward a total endoscopic procedure," Seminars in thoracic and cardiovascular surgery 11(3): 224-249 (1999)
	CO	Fundaro et al., "Chordal placcation and free edge remodeling for mitral anterior leaflet prolapse repair: 8 year follow-up," Annals of Thoracic Surgery 72: 1515-1519 (2001)
	CP	Garcia-Rinaldi et al., "Left ventricular volume reduction and reconstruction is ischemic cardiomyopathy," Journal of Cardiac Surgery 14: 199-210 (1999)
	CQ	Gateliene, "Early and postoperative results results of metal and tricuspid valve insufficiency surgical treatment using edge-to-edge central coaptation procedure," Medicina 38 (Suppl 2): 172-175 (2002) [Article in Lithuanian, English summary on page 174 of the article]
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	CR	Gatti et al., "The edge to edge technique as a trick as a trick to rescue an imperfect mitral valve repair," Eur. J. Cardiothorac Surg 22(5): 817-20 (2002)					
	CS	Gillinov et al., "Is minimally invasive heart valve surgery a paradigm for future?" Current Cardiology Reports 1: 318-322 (1999)					
	CT	Gundry et al., "Facile Minimally Invasive Cardiac Surgery via Ministernotomy," Ann. Thorac. Surg. 65: 1100-1104 (1998)					
	CU	Ikeda et al., "Batista's operation with coronary artery bypass grafting and mitral valve plasty for ischemic dilated cardiomyopathy," The Japanese Journal of Thoracic and Cardiovascular Surgery 48: 746-749 (2000)					
	CV	Izzat et al., "Early experience with partial left ventriculectomy in the Asia-Pacific Region," Annals of Thoracic Surgery 67: 1703-1707 (1999)					
	CW	Källner et al., "Transaortic approach for the Alfieri Stitch," Ann Thorac Surg 71: 378-380 (2001)					
	CX	Kavarna et al., "Transaortic repair of mitral regurgitation," Presented at the third annual New Era Cardiac Care conference, San Diego, CA, January 13-16 (2000), http://www.hsforum.com/vol3/issue1/2000-2389print.html (accessed on December 14, 2004)					
	CY	Kaza et al., "Ventricular reconstruction results in improved left ventricular function and amelioration of mitral insufficiency," Annals of Surgery 235(6): 828-832 (2002)					
	CZ	Kherani, "The edge-to-edge mitral valve repair: the Columbia Presbyterian experience," Ann. Thorac. Surg. 78: 73-76 (2004)					
	DA	Konertz et al., "Results after partial left ventriculectomy in a European heart failure population," Journal of Cardiac Surgery 14(2): 129-135 (1999)					
	DB	Kron et al., "Surgical relocation of the posterior papillary muscle in chronic ischemic mitral regurgitation," Annals of Thoracic Surgery 74: 600-601 (2002)					
	DC	Krüger et al., "Edge to edge technique in complex mitral valve repair," Thorac Cardiovasc Surg. 48 (Supplement 1): page 106 (abstract p73) (2000)					
	DD	Lorusso et al., " 'Double-Orifice' technique to repair extensive mitral valve excision following acute endocarditis," J. Card Surg 13: 24-26 (1998)					
	DE	Lorusso et al., "The double-orifice technique for mitral valve construction: predictors of postoperative outcome," Eur J. Cardiothorac Surg 20(3): 583-589 (2001)					
	DF	Maisano et al., "The double orifice repair for Barlow Disease: a simple solution for a complex repair," [Abstract], Circulation (Supplement 1) 100(18): 1-94 (1989)					
	DG	Maisano et al., "The double orifice technique as a standardized approach to treat mitral regurgitation due to severe myxomatous disease: surgical technique," European Journal of Cardiothoracic Surgery 17: 201-205 (2000)					
	DH	Maisano et al., "The hemodynamic effects of double-orifice valve repair for mitral regurgitation: a 3D computational model: a 3D computational model," European Journal of Cardio-thoracic Surgery 15: 419-425 (1999)					
	DI	Maisano et al., "Valve repair for traumatic tricuspid regurgitation," Eur. J. Cardio-thorac Surg 10: 867-873 (1996)					
	DJ	Mantovani et al., "Edge-to-edge repair of congenital familial tricuspid regurgitation: case report," J. Heart Valve Dis., 9(5): 641-643 (2000)					

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	DK	McCarthy et al., "Partial left ventriculectomy and mitral valve repair for end-stage congestive heart failure," <i>European Journal of Cardio-thoracic Surgery</i> 13: 337-343 (1998)					
	DL	Moainie et al., "Correction of traumatic tricuspid regurgitation using the double orifice technique," <i>Annals of Thoracic Surgery</i> 73: 963-965 (2002)					
	DM	Morales et al., "Development of an off bypass mitral valve repair," <i>The Heart Surgery Fourm</i> #1999-4693, 2(2): 115-120 (1999)					
	DN	Nakanishi et al., "Early outcome with the Alfieri mitral valve repair," <i>J. Cardiol.</i> 37(5): 263-266 (2001) [Abstract in English; Article in Japanese]					
	DO	Nielsen et al., "The edge-to-edge mitral repair: tension of the approximating suture and leaflet deformation during acute ischemic mitral regurgitation in the ovine heart," <i>Circulation</i> 104 (Suppl 1): 1-29-1-35 (2001)					
	DP	Osawa et al., "Partial left ventriculectomy in a 3 year old boy with dilated cardiomyopathy," <i>Japanese Journal of Thoracic and Cardiovascular Surgery</i> 48(9): 590-593 (2000)					
	DQ	Privitera et al., "Alfieri Mitral Valve Repair: Clinical Outcome and Pathology," <i>Circulation</i> 106: 173 (2002)					
	DR	Redaelli et al., "A computational study of the hemodynamics after 'edge-to-edge' mitral valve repair," <i>Journal of Biomechanical Engineering</i> 123: 565-570 (2001)					
	DS	Reul, Ross M. and Cohn, Lawrence II, "Mitral Valve Reconstruction for Mitral Insufficiency," <i>Prog Cardiovasc Dis.</i> 39(6):567-99 (1997)					
	DT	Tamura et al., "Edge to edge repair for mitral regurgitation on a patient with chronic hemodialysis: report of a case," <i>Kyobu Geka</i> 54(9): 788-790 (2001) [Article in Japanese, English Summary]					
	DU	Timek, "Edge-to-edge mitral repair: gradients and three-dimensional annular dynamics in vivo during inotropic stimulation," <i>European Journal of Cardio-thoracic Surgery</i> 19: 431-437 (2001)					
	DV	Timek, "Edge-to-edge mitral valve repair without ring annuloplasty for acute ischemic mitral regurgitation," <i>Circulation</i> 108 (Supplement II): II-122—II-127 (2003)					
	DW	Totaro, "Mitral valve repair for isolated prolapse of the anterior leaflet: an 11-year follow-up," <i>European Journal of Cardio-thoracic Surgery</i> 15: 119-126 (1999)					
	DX	Umana et al., "'Bow-tie' mitral valve repair successfully addresses subvalvular dysfunction in ischemic mitral regurgitation," <i>Surgical Forum</i> , 48: 279-280 (1997)					
	DY	Votta et al., "3-D computational analysis of the stress distribution on the leaflets after edge-to-edge repair of mitral regurgitation," <i>Journal of Heart Valve Disease</i> 11: 810-822 (2002)					
	DZ	Derwent English Abstract for German Patent No. DE3504292 (Item AN above)					
	EA	Derwent English Abstract for European Patent No. EP0684012 (Item AQ above)					
	EB	Derwent English Abstract for Japanese Patent No. JP11089937 (Item AR above)					

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